



A.D. 1873, 16th JULY.

N° 2463.

SPECIFICATION

OF

JAMES HICKISSON.

TEATS, RINGS, &c., FOR INFANTS.

LONDON:

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1874.



A.D. 1873, 16th JULY. N° 2463.

Teats, Rings, &c., for Infants.

LETTERS PATENT to James Hickisson, of Southgate Road, Hackney, in the County of Middlesex, Marking Ink Manufacturer, for the Invention of “**IMPROVEMENTS IN TEATS, RINGS, AND OTHER ARTICLES SUCKED BY INFANTS.**”

Sealed the 23rd September 1873, and dated the 16th July 1873.

PROVISIONAL SPECIFICATION left by the said James Hickisson at the Office of the Commissioners of Patents, with his Petition, on the 16th July 1873.

I, JAMES HICKISSON, of Southgate Road, Hackney, in the County of Middlesex, Marking Ink Manufacturer, do hereby declare the nature of the said Invention for “**IMPROVEMENTS IN TEATS, RINGS, AND OTHER ARTICLES SUCKED BY INFANTS,**” to be as follows:—

The object of my Invention is to manufacture teats, rings, and other articles sucked by infants in such manner that the said teats, rings, or

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articles shall be more easy to the gums of infants than those at present in use, and shall assist them in cutting their teeth and in retaining the said teats or articles between their lips.

The ordinary artificial teat is an ovoidal, bulging, or inflated nozzle of vulcanized caoutchouc or other material made smooth on the surface, 5 and this construction has many disadvantages; whereas according to my Invention the teat is formed with corrugations, lines, striæ, indentations, roughnesses, undulations, protuberances, bosses, marks, or other unevennesses on the surface of the body of the teat, and also if desirable on the collar or shoulder of the teat. By these means the child uses 10 the teat more readily and securely, its gums are eased, and the cutting of its teeth facilitated.

Also, I sometimes make the teat of a flattened, flat, or nearly flat shape instead of a bulging, ovoidal, or spheroidal shape, and in this case I also generally use striæ marks, corrugations, indentations, lines, pro- 15 tuberances, roughnesses, or unevennesses in manner before described.

I likewise apply the said improvements in so far as regards the employment of striæ, corrugations, indentations, protuberances, roughnesses, or unevennesses to sucking rings and other articles sucked by children. 20

I sometimes perforate or form the collar or shoulder of the teat or other article with a number of small orifices or openings for the passage of the air.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said James Hickisson in the Great Seal Patent Office 25 on the 16th January 1874.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES HICKISSON, of Southgate Road, Hackney, in the County of Middlesex, Marking Ink Manufacturer, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her 30 Letters Patent, bearing date the Sixteenth day of July in the year of

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our Lord One thousand eight hundred and seventy-three, in the thirty-seventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said James Hickisson, Her special licence that I, the said James Hickisson, my executors, administrators, and
5 assigns, or such others as I, the said James Hickisson, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the
10 Channel Islands, and Isle of Man, an Invention for "IMPROVEMENTS IN TEATS, RINGS, AND OTHER ARTICLES SUCKED BY INFANTS," upon the condition (amongst others) that I, the said James Hickisson, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the
15 nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said James Hickisson, do hereby declare
20 the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, reference being had to the accompanying Drawings and to the letters and figures marked thereon, that is to say :—

25 The object of my Invention is to manufacture teats, rings, and other articles sucked by infants in such manner that the said teats, rings, or articles shall be more easy to the gums of infants than those at present in use, and shall assist them in cutting their teeth and in retaining the said teats or articles between their lips.

30 The ordinary artificial teat is an ovoidal, bulging, or inflated nozzle or nipple of vulcanised caoutchouc or other material made smooth on the surface, and this construction has many disadvantages ; whereas according to my Invention the teat is formed with corrugations, striae, indentations, roughnesses, undulations, protuberances, bosses,
35 or unevennesses on the surface of the body of the teat. By these

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means the child uses the teat more readily and securely, its gums are eased, and the cutting of its teeth is facilitated.

Also, I sometimes make the teat of a flattened, flat, or nearly flat shape instead of a bulging, ovoidal, or spheroidal shape, and in this case I also use striae, corrugations, indentations, undulations, protuberances, 5 roughnesses, or unevennesses in manner before described.

I likewise apply the said improvements in so far as regards the employment of striae, corrugations, indentations, undulations, protuberances, roughnesses, or unevennesses to sucking rings, caoutchouc, doll heads and toys, and other articles sucked by children. 10

I sometimes according to my Invention perforate the collar or shoulder of teats or nipples and of other articles sucked by children, that is to say, I form the collar or shoulder with a number of small orifices or openings for the passage of air.

The accompanying Drawings exemplify sucking appliances made 15 according to my Invention, various modifications being shewn :—

Figure 1 is an elevation, and Figure 2 a plan of an article intended for children to hold or suck between their gums to assist them in cutting their teeth, and which article I call a pad or rubber.

Figure 3 is an elevation, and Figure 4 a plan of a teat or nipple to be 20 attached to a feeding bottle for infants.

Figure 5 is a plan of a ring for children to suck.

Figure 6 is an elevation of another form of teat.

Figure 7 is an elevation, and Figure 8 a plan of a combined corrugated “pad” or “rubber” and plain ring. 25

Figure 9 is an elevation showing the ring corrugated.

Sometimes according to my Invention I perforate or form orifices in the collar or shoulder of the pad rubber, teat, or other article, but leave or form the body or main portion of the pad, teat, or nipple, or part held between the gums or teeth without undulations, corrugations, inden- 30 tations, striae, roughnesses, or unevennesses. Figure 10 is an elevation,

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and Figure 11 plan of such a teat, and Figure 12 is a section of such a pad or rubber.

In all the Figures A is the nozzle, pad, or part of the article held between the child's lips ; B is the collar or shoulder of the article ; *m, m,* 5 are the perforations.

It is sometimes advisable that the corrugations or roughnesses should not extend the whole length of the pad or teat, but that there should be none in close proximity to the collar or shoulder so that the child's lips may not be chafed.

10 It is evident that the form of teat, nozzle, nipple, "pad," "rubber," or other article held between the child's lips or gums, and the form, device, or arrangement of the corrugations, striae, indentations, roughnesses, or undulations, protuberances, bosses, or unevennesses, and also of the perforations or orifices may be varied without departing from the 15 nature of the Invention.

I may mention that in carrying out the Invention the material which is most advantageously used for the manufacture of articles formed according to my improvements is vulcanized india-rubber, which I mould or press in a hot state and in the manner usual in the manufacture 20 of moulded or pressed india-rubber articles, but the moulds have on their inner surfaces devices either sunken or projecting as required in order to produce the undulations, indentations, protuberances, striae, bosses, unevennesses, or roughnesses on the article so that the same are applied thereto or formed thereon, or I cut or stamp out the article by 25 means of a die, and then press the material between perforated zinc or other perforated material, and then vulcanize it, or I cut it into shape, perforate it, and then place it between strips of zinc or other suitable material having the necessary devices thereon. I then screw or wedge it up firmly and tightly so that the corrugations or unevennesses are 30 produced in the vulcanizing process. But of course I do not confine myself to these modes of manufacture in carrying out my Invention.

When the article is used as a teat or nozzle for a feeding bottle it is made hollow, and an orifice or passage is formed at the end.

Having now described the nature of the said Invention and in what 35 manner the same may be performed, I declare that my Invention relates to teats, rings, and other articles sucked by infants, and that I claim,—

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First. Forming such teats, rings, and articles with corrugations, striae, indentations, roughnesses, undulations, protuberances, bosses, or unevennesses, substantially as described.

Second. Forming the collars or shoulders with perforations or orifices, substantially as described.

In witness whereof, I, the said James Hickisson, have hereunto set my hand and seal, this Sixteenth day of January, in the year of our Lord One thousand eight hundred and seventy-four.

JAMES HICKISSON. (L.S.)

Witness,

E. DE PASS,

Patent Office,

68, Fleet Street,

London.

LONDON :

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Printers to the Queen's most Excellent Majesty. 1874.

FIG. 1.

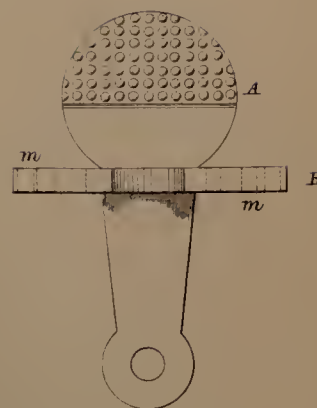


FIG. 2.

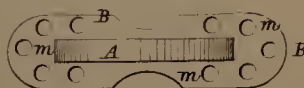


FIG. 12.

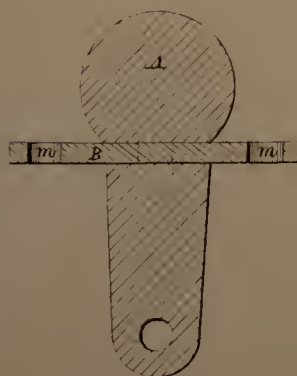


FIG. 3.

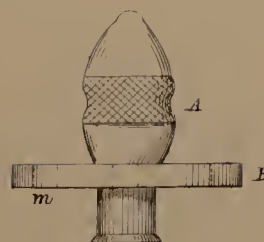


FIG. 4.

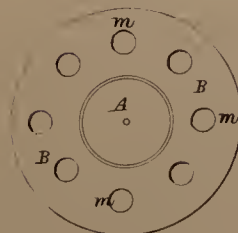


FIG. 5.

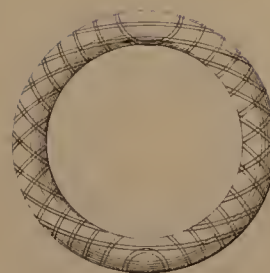


FIG. 7.

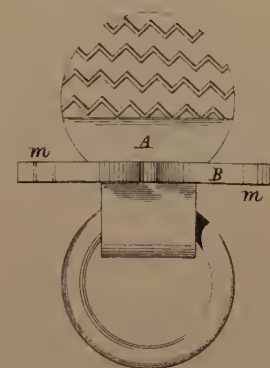


FIG. 8.



FIG. 6.



FIG. 9.

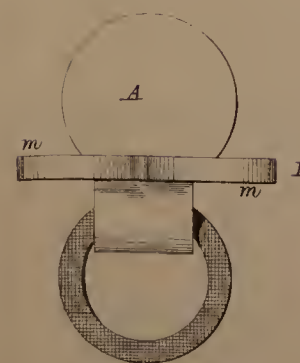


FIG. 10.

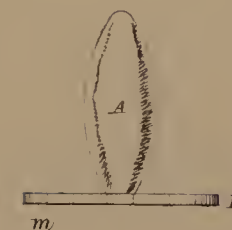


FIG. 11.

